

Release notes for ENDF/B Development g-074_W_186
evaluation

ENDF
B-VII.dev

December 2, 2016

- checkr Warnings:

1. A previous error halted parsing of the current section
MAT=7443, MF= 1, MT=451 (1): Parsing stopped

```
ERROR(S) FOUND IN MAT=7443, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER      104 TO      145
```

- checkr Errors:

1. A variable is outside the allowed ENDF range
MAT=7443, MF= 1, MT=451 (0): Variable range

```
ERROR(S) FOUND IN MAT=7443, MF= 1, MT=451
MOD =      1 OUT OF RANGE      0 -      0      RECORD NUMBER      104
```

2. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7443, MF= 3, MT= 3 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=7443, MF= 3, MT= 3
SECTION 3/ 3 NOT IN DIRECTORY      RECORD NUMBER      147
```

3. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7443, MF= 3, MT= 4 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=7443, MF= 3, MT= 4
SECTION 3/ 4 NOT IN DIRECTORY      RECORD NUMBER      177
```

4. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7443, MF= 3, MT= 16 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=7443, MF= 3, MT= 16
SECTION 3/ 16 NOT IN DIRECTORY      RECORD NUMBER      205
```

5. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7443, MF= 3, MT= 17 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=7443, MF= 3, MT= 17
SECTION 3/ 17 NOT IN DIRECTORY      RECORD NUMBER      222
```

6. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7443, MF= 3, MT= 22 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=7443, MF= 3, MT= 22
SECTION 3/ 22 NOT IN DIRECTORY      RECORD NUMBER      233
```

7. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7443, MF= 3, MT= 28 (0): Directory (b)

ERROR(S) FOUND IN MAT=7443, MF= 3, MT= 28
SECTION 3/ 28 NOT IN DIRECTORY RECORD NUMBER 247

8. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7443, MF= 3, MT= 50 (0): Directory (b)

ERROR(S) FOUND IN MAT=7443, MF= 3, MT= 50
SECTION 3/ 50 NOT IN DIRECTORY RECORD NUMBER 259

9. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7443, MF= 3, MT= 51 (0): Directory (b)

ERROR(S) FOUND IN MAT=7443, MF= 3, MT= 51
SECTION 3/ 51 NOT IN DIRECTORY RECORD NUMBER 287

10. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7443, MF= 3, MT= 52 (0): Directory (b)

ERROR(S) FOUND IN MAT=7443, MF= 3, MT= 52
SECTION 3/ 52 NOT IN DIRECTORY RECORD NUMBER 315

11. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7443, MF= 3, MT= 53 (0): Directory (b)

ERROR(S) FOUND IN MAT=7443, MF= 3, MT= 53
SECTION 3/ 53 NOT IN DIRECTORY RECORD NUMBER 343

12. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7443, MF= 3, MT= 54 (0): Directory (b)

ERROR(S) FOUND IN MAT=7443, MF= 3, MT= 54
SECTION 3/ 54 NOT IN DIRECTORY RECORD NUMBER 370

13. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7443, MF= 3, MT= 55 (0): Directory (b)

ERROR(S) FOUND IN MAT=7443, MF= 3, MT= 55
SECTION 3/ 55 NOT IN DIRECTORY RECORD NUMBER 397

14. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7443, MF= 3, MT= 56 (0): Directory (b)

ERROR(S) FOUND IN MAT=7443, MF= 3, MT= 56
SECTION 3/ 56 NOT IN DIRECTORY RECORD NUMBER 424

15. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7443, MF= 3, MT= 57 (0): Directory (b)

- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=7443, MF= 3, MT= 57 | RECORD NUMBER | 450 |
| SECTION 3/ 57 NOT IN DIRECTORY | | |
16. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7443, MF= 3, MT= 58 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=7443, MF= 3, MT= 58 | RECORD NUMBER | 476 |
| SECTION 3/ 58 NOT IN DIRECTORY | | |
17. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7443, MF= 3, MT= 59 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=7443, MF= 3, MT= 59 | RECORD NUMBER | 502 |
| SECTION 3/ 59 NOT IN DIRECTORY | | |
18. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7443, MF= 3, MT= 60 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=7443, MF= 3, MT= 60 | RECORD NUMBER | 527 |
| SECTION 3/ 60 NOT IN DIRECTORY | | |
19. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7443, MF= 3, MT= 61 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=7443, MF= 3, MT= 61 | RECORD NUMBER | 552 |
| SECTION 3/ 61 NOT IN DIRECTORY | | |
20. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7443, MF= 3, MT= 62 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=7443, MF= 3, MT= 62 | RECORD NUMBER | 577 |
| SECTION 3/ 62 NOT IN DIRECTORY | | |
21. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7443, MF= 3, MT= 63 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=7443, MF= 3, MT= 63 | RECORD NUMBER | 601 |
| SECTION 3/ 63 NOT IN DIRECTORY | | |
22. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7443, MF= 3, MT= 64 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=7443, MF= 3, MT= 64 | RECORD NUMBER | 625 |
| SECTION 3/ 64 NOT IN DIRECTORY | | |
23. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7443, MF= 3, MT= 65 (0): Directory (b)

- | | | |
|--|---|-------------------|
| | ERROR(S) FOUND IN MAT=7443, MF= 3, MT= 65 | |
| | SECTION 3/ 65 NOT IN DIRECTORY | RECORD NUMBER 649 |
24. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7443, MF= 3, MT= 66 (0): Directory (b)
- | | | |
|--|---|-------------------|
| | ERROR(S) FOUND IN MAT=7443, MF= 3, MT= 66 | |
| | SECTION 3/ 66 NOT IN DIRECTORY | RECORD NUMBER 672 |
25. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7443, MF= 3, MT= 67 (0): Directory (b)
- | | | |
|--|---|-------------------|
| | ERROR(S) FOUND IN MAT=7443, MF= 3, MT= 67 | |
| | SECTION 3/ 67 NOT IN DIRECTORY | RECORD NUMBER 695 |
26. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7443, MF= 3, MT= 68 (0): Directory (b)
- | | | |
|--|---|-------------------|
| | ERROR(S) FOUND IN MAT=7443, MF= 3, MT= 68 | |
| | SECTION 3/ 68 NOT IN DIRECTORY | RECORD NUMBER 718 |
27. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7443, MF= 3, MT= 69 (0): Directory (b)
- | | | |
|--|---|-------------------|
| | ERROR(S) FOUND IN MAT=7443, MF= 3, MT= 69 | |
| | SECTION 3/ 69 NOT IN DIRECTORY | RECORD NUMBER 740 |
28. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7443, MF= 3, MT= 70 (0): Directory (b)
- | | | |
|--|---|-------------------|
| | ERROR(S) FOUND IN MAT=7443, MF= 3, MT= 70 | |
| | SECTION 3/ 70 NOT IN DIRECTORY | RECORD NUMBER 762 |
29. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7443, MF= 3, MT= 71 (0): Directory (b)
- | | | |
|--|---|-------------------|
| | ERROR(S) FOUND IN MAT=7443, MF= 3, MT= 71 | |
| | SECTION 3/ 71 NOT IN DIRECTORY | RECORD NUMBER 784 |
30. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7443, MF= 3, MT= 91 (0): Directory (b)
- | | | |
|--|---|-------------------|
| | ERROR(S) FOUND IN MAT=7443, MF= 3, MT= 91 | |
| | SECTION 3/ 91 NOT IN DIRECTORY | RECORD NUMBER 805 |
31. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7443, MF= 3, MT=102 (0): Directory (b)

- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=7443, MF= 3, MT=102 | | |
| SECTION 3/102 NOT IN DIRECTORY | RECORD NUMBER | 826 |
32. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7443, MF= 3, MT=103 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=7443, MF= 3, MT=103 | | |
| SECTION 3/103 NOT IN DIRECTORY | RECORD NUMBER | 856 |
33. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7443, MF= 3, MT=104 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=7443, MF= 3, MT=104 | | |
| SECTION 3/104 NOT IN DIRECTORY | RECORD NUMBER | 874 |
34. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7443, MF= 3, MT=105 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=7443, MF= 3, MT=105 | | |
| SECTION 3/105 NOT IN DIRECTORY | RECORD NUMBER | 887 |
35. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7443, MF= 3, MT=106 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=7443, MF= 3, MT=106 | | |
| SECTION 3/106 NOT IN DIRECTORY | RECORD NUMBER | 901 |
36. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7443, MF= 3, MT=107 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=7443, MF= 3, MT=107 | | |
| SECTION 3/107 NOT IN DIRECTORY | RECORD NUMBER | 910 |
37. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7443, MF= 6, MT= 16 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=7443, MF= 6, MT= 16 | | |
| SECTION 6/ 16 NOT IN DIRECTORY | RECORD NUMBER | 931 |
38. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7443, MF= 6, MT= 17 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=7443, MF= 6, MT= 17 | | |
| SECTION 6/ 17 NOT IN DIRECTORY | RECORD NUMBER | 1102 |
39. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7443, MF= 6, MT= 22 (0): Directory (b)

ERROR(S) FOUND IN MAT=7443, MF= 6, MT= 22
SECTION 6/ 22 NOT IN DIRECTORY RECORD NUMBER 1192

40. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7443, MF= 6, MT= 28 (0): Directory (b)

ERROR(S) FOUND IN MAT=7443, MF= 6, MT= 28
SECTION 6/ 28 NOT IN DIRECTORY RECORD NUMBER 1327

41. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7443, MF= 6, MT= 91 (0): Directory (b)

ERROR(S) FOUND IN MAT=7443, MF= 6, MT= 91
SECTION 6/ 91 NOT IN DIRECTORY RECORD NUMBER 1435

• **fizcon** Errors:

1. Missing files (probably spectra for outgoing particles)
MAT -1 MF 6 (1): Missing files (a)

ERROR(S) - MISSING SECTIONS IN MAT -1 MF 6
PRESENCE OF FILE 3, MT= 50 REQUIRES AN EQUIVALENT SECTION IN FILE 6
PRESENCE OF FILE 3, MT= 51 REQUIRES AN EQUIVALENT SECTION IN FILE 6
PRESENCE OF FILE 3, MT= 52 REQUIRES AN EQUIVALENT SECTION IN FILE 6
PRESENCE OF FILE 3, MT= 53 REQUIRES AN EQUIVALENT SECTION IN FILE 6
... [18 more lines]

2. Missing files (probably spectra for outgoing particles)
MAT -1 MF 6 (2): Missing files (a)

ERROR(S) - MISSING SECTIONS IN MAT -1 MF 6
PRESENCE OF FILE 3, MT= 102 REQUIRES AN EQUIVALENT SECTION IN FILE 6
PRESENCE OF FILE 3, MT= 103 REQUIRES AN EQUIVALENT SECTION IN FILE 6
PRESENCE OF FILE 3, MT= 104 REQUIRES AN EQUIVALENT SECTION IN FILE 6
PRESENCE OF FILE 3, MT= 105 REQUIRES AN EQUIVALENT SECTION IN FILE 6
... [2 more lines]

• **fudge-4.0** Errors:

1. Calculated and tabulated Q values disagree.
reaction label 0: n + W185 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -4303794.905700684 eV vs -7.1928e6 eV!

2. Outgoing distributions are required for neutrons in the ENDF format (you do want to do neutronics, right?)
reaction label 0: n + W185 / Product: n (Error # 0): Missing n dist.

WARNING: Missing distribution (required for all 'n' products)!

3. Calculated and tabulated Q values disagree.
reaction label 1: n + W185_e1 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -4327394.905700684 eV vs -7.2164e6 eV!

4. Outgoing distributions are required for neutrons in the ENDF format (you do want to do neutronics, right?)
reaction label 1: n + W185_e1 / Product: n (Error # 0): Missing n dist.

WARNING: Missing distribution (required for all 'n' products)!
5. Calculated and tabulated Q values disagree.
reaction label 2: n + W185_e2 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -4369694.905700684 eV vs -7.2587e6 eV!
6. Outgoing distributions are required for neutrons in the ENDF format (you do want to do neutronics, right?)
reaction label 2: n + W185_e2 / Product: n (Error # 0): Missing n dist.

WARNING: Missing distribution (required for all 'n' products)!
7. Calculated and tabulated Q values disagree.
reaction label 3: n + W185_e3 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -4397094.905700684 eV vs -7.2861e6 eV!
8. Outgoing distributions are required for neutrons in the ENDF format (you do want to do neutronics, right?)
reaction label 3: n + W185_e3 / Product: n (Error # 0): Missing n dist.

WARNING: Missing distribution (required for all 'n' products)!
9. Calculated and tabulated Q values disagree.
reaction label 4: n + W185_e4 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -4477494.905700684 eV vs -7.3665e6 eV!
10. Outgoing distributions are required for neutrons in the ENDF format (you do want to do neutronics, right?)
reaction label 4: n + W185_e4 / Product: n (Error # 0): Missing n dist.

WARNING: Missing distribution (required for all 'n' products)!
11. Calculated and tabulated Q values disagree.
reaction label 5: n + W185_e5 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -4491694.905700684 eV vs -7.3807e6 eV!
12. Outgoing distributions are required for neutrons in the ENDF format (you do want to do neutronics, right?)
reaction label 5: n + W185_e5 / Product: n (Error # 0): Missing n dist.

WARNING: Missing distribution (required for all 'n' products)!
13. Calculated and tabulated Q values disagree.
reaction label 6: n + W185_e6 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -4501194.905700684 eV vs -7.3902e6 eV!

14. Outgoing distributions are required for neutrons in the ENDF format (you do want to do neutronics, right?)
reaction label 6: $n + W185_e6$ / Product: n (Error # 0): Missing n dist.
- WARNING: Missing distribution (required for all 'n' products)!
15. Calculated and tabulated Q values disagree.
reaction label 7: $n + W185_e7$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -4547494.905700684 eV vs -7.4365e6 eV!
16. Outgoing distributions are required for neutrons in the ENDF format (you do want to do neutronics, right?)
reaction label 7: $n + W185_e7$ / Product: n (Error # 0): Missing n dist.
- WARNING: Missing distribution (required for all 'n' products)!
17. Calculated and tabulated Q values disagree.
reaction label 8: $n + W185_e8$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -4605794.905700684 eV vs -7.4948e6 eV!
18. Outgoing distributions are required for neutrons in the ENDF format (you do want to do neutronics, right?)
reaction label 8: $n + W185_e8$ / Product: n (Error # 0): Missing n dist.
- WARNING: Missing distribution (required for all 'n' products)!
19. Calculated and tabulated Q values disagree.
reaction label 9: $n + W185_e9$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -4637794.905700684 eV vs -7.5268e6 eV!
20. Outgoing distributions are required for neutrons in the ENDF format (you do want to do neutronics, right?)
reaction label 9: $n + W185_e9$ / Product: n (Error # 0): Missing n dist.
- WARNING: Missing distribution (required for all 'n' products)!
21. Calculated and tabulated Q values disagree.
reaction label 10: $n + W185_e10$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -4687794.905700684 eV vs -7.5768e6 eV!
22. Outgoing distributions are required for neutrons in the ENDF format (you do want to do neutronics, right?)
reaction label 10: $n + W185_e10$ / Product: n (Error # 0): Missing n dist.
- WARNING: Missing distribution (required for all 'n' products)!
23. Calculated and tabulated Q values disagree.
reaction label 11: $n + W185_e11$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -4694794.905700684 eV vs -7.5838e6 eV!

24. Outgoing distributions are required for neutrons in the ENDF format (you do want to do neutronics, right?)
reaction label 11: n + W185.e11 / Product: n (Error # 0): Missing n dist.
- WARNING: Missing distribution (required for all 'n' products)!
25. Calculated and tabulated Q values disagree.
reaction label 12: n + W185.e12 (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -4781794.905700684 eV vs -7.6708e6 eV!
26. Outgoing distributions are required for neutrons in the ENDF format (you do want to do neutronics, right?)
reaction label 12: n + W185.e12 / Product: n (Error # 0): Missing n dist.
- WARNING: Missing distribution (required for all 'n' products)!
27. Calculated and tabulated Q values disagree.
reaction label 13: n + W185.e13 (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -4795794.905700684 eV vs -7.6848e6 eV!
28. Outgoing distributions are required for neutrons in the ENDF format (you do want to do neutronics, right?)
reaction label 13: n + W185.e13 / Product: n (Error # 0): Missing n dist.
- WARNING: Missing distribution (required for all 'n' products)!
29. Calculated and tabulated Q values disagree.
reaction label 14: n + W185.e14 (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -4873794.905700684 eV vs -7.7628e6 eV!
30. Outgoing distributions are required for neutrons in the ENDF format (you do want to do neutronics, right?)
reaction label 14: n + W185.e14 / Product: n (Error # 0): Missing n dist.
- WARNING: Missing distribution (required for all 'n' products)!
31. Calculated and tabulated Q values disagree.
reaction label 15: n + W185.e15 (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -4967394.905700684 eV vs -7.8564e6 eV!
32. Outgoing distributions are required for neutrons in the ENDF format (you do want to do neutronics, right?)
reaction label 15: n + W185.e15 / Product: n (Error # 0): Missing n dist.
- WARNING: Missing distribution (required for all 'n' products)!
33. Calculated and tabulated Q values disagree.
reaction label 16: n + W185.e16 (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -5009794.905700684 eV vs -7.8988e6 eV!

34. Outgoing distributions are required for neutrons in the ENDF format (you do want to do neutronics, right?)
reaction label 16: $n + W185.e16$ / Product: n (Error # 0): Missing n dist.
- WARNING: Missing distribution (required for all 'n' products)!
35. Calculated and tabulated Q values disagree.
reaction label 17: $n + W185.e17$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -5019794.905700684 eV vs -7.9088e6 eV!
36. Outgoing distributions are required for neutrons in the ENDF format (you do want to do neutronics, right?)
reaction label 17: $n + W185.e17$ / Product: n (Error # 0): Missing n dist.
- WARNING: Missing distribution (required for all 'n' products)!
37. Calculated and tabulated Q values disagree.
reaction label 18: $n + W185.e18$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -5033794.905700684 eV vs -7.9228e6 eV!
38. Outgoing distributions are required for neutrons in the ENDF format (you do want to do neutronics, right?)
reaction label 18: $n + W185.e18$ / Product: n (Error # 0): Missing n dist.
- WARNING: Missing distribution (required for all 'n' products)!
39. Calculated and tabulated Q values disagree.
reaction label 19: $n + W185.e19$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -5072194.905700684 eV vs -7.9612e6 eV!
40. Outgoing distributions are required for neutrons in the ENDF format (you do want to do neutronics, right?)
reaction label 19: $n + W185.e19$ / Product: n (Error # 0): Missing n dist.
- WARNING: Missing distribution (required for all 'n' products)!
41. Calculated and tabulated Q values disagree.
reaction label 20: $n + W185.e20$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -5077794.905700684 eV vs -7.9668e6 eV!
42. Outgoing distributions are required for neutrons in the ENDF format (you do want to do neutronics, right?)
reaction label 20: $n + W185.e20$ / Product: n (Error # 0): Missing n dist.
- WARNING: Missing distribution (required for all 'n' products)!
43. Calculated and tabulated Q values disagree.
reaction label 21: $n + W185.e21$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -5089194.905700684 eV vs -7.9782e6 eV!

44. Outgoing distributions are required for neutrons in the ENDF format (you do want to do neutronics, right?)
reaction label 21: $n + W185.e21$ / Product: n (Error # 0): Missing n dist.
- WARNING: Missing distribution (required for all 'n' products)!
45. Calculated and tabulated Q values disagree.
reaction label 22: $n + W185.c$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -5089194.905700684 eV vs -7.9782e6 eV!
46. Calculated and tabulated Q values disagree.
reaction label 23: $n[multiplicity:'2'] + W184$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -10057484.35272217 eV vs -1.2948e7 eV!
47. Calculated and tabulated Q values disagree.
reaction label 24: $n[multiplicity:'3'] + W183$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -17469083.2328186 eV vs -2.0359e7 eV!
48. Calculated and tabulated Q values disagree.
reaction label 25: $n + H1 + Ta184$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -12141138.1048584 eV vs -1.503e7 eV!
49. Calculated and tabulated thresholds don't agree
reaction label 26: $W186 + gamma$ / Cross section: (Error # 0): Threshold mismatch
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.e6 eV!
50. Calculated and tabulated Q values disagree.
reaction label 27: $n + He4 + Hf181$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -2706502.587463379 eV vs -5.5946e6 eV!
51. Calculated and tabulated Q values disagree.
reaction label 28: $H1 + Ta185.s$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -5514948.923370361 eV vs -8.401e6 eV!
52. Calculated and tabulated Q values disagree.
reaction label 29: $H2 + Ta184.s$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -9916572.003936768 eV vs -1.2806e7 eV!
53. Calculated and tabulated Q values disagree.
reaction label 30: $H3 + Ta183.s$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -9275843.656005859 eV vs -1.2165e7 eV!
54. Calculated and tabulated Q values disagree.
reaction label 31: $He3 + Hf183.s$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -11267251.68310547 eV vs -1.4156e7 eV!

55. Calculated and tabulated Q values disagree.
reaction label 32: He4 + Hf182-s / Cross section: (Error # 0): Q mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.e6 eV!
 WARNING: Calculated and tabulated Q-values disagree: 4011493.71585083 eV vs 1.1222e6 eV!

• **xsectplotter** Warnings:

1. Encountered runtime warning in xsectplotter or Fudge or matplotlib
(Error # 2): RuntimeWarning

/usr/local/lib/python2.7/site-packages/matplotlib-1.5.3-py2.7-linux-x86_64.egg/matplotlib/font_manager.py:273: U
 /usr/local/lib/python2.7/site-packages/matplotlib-1.5.3-py2.7-linux-x86_64.egg/matplotlib/pyplot.py:524: Runtime

2. Encountered runtime warning in xsectplotter or Fudge or matplotlib
/usr/local/lib/python2.7/site-packages/matplotlib-1.5.3-py2.7-linux-x86_64.egg/matplotlib/pyplot.py:524: RuntimeWarning: More than 20 figures have been opened. Figures created through the pyplot interface ('matplotlib.pyplot.figure') are retained until explicitly closed and may consume too much memory. (To control this warning, see the rcParam 'figure.max_open_warning'). (Error # 0): RuntimeWarning

max_open_warning, RuntimeWarning)